



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/764,617	01/16/2001	Gene A. Bornzin	A01P1002	7875

7590 06/16/2004

Lisa P. Weinberg  
Patent Agent  
Pacesetter, Inc.  
15900 Valley View Court  
Sylmar, CA 91392-9221

EXAMINER
----------

OROPEZA, FRANCES P

ART UNIT	PAPER NUMBER
----------	--------------

3762

DATE MAILED: 06/16/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/764,617

Applicant(s)

Examiner

Frances P. Oropeza

Art Unit

3762

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 3/4/04 (Amendment and RCE).
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-8,10-19,21 and 22 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8,10-19,21 and 22 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- ☐ Notice of References Cited (PTO-892)
- ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date 3/4/04.
- ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- ☐ Notice of Informal Patent Application (PTO-152)
- ☐ Other: \_\_\_\_\_.

**DETAILED ACTION**

***Request for Continued Examination***

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. The Applicant's submission filed on 3/4/04 has been entered.

***Response to Amendment***

2. The Applicant's amendment filed 3/4/04 overcomes the prior art of record, hence the rejection of record is withdrawn and a new rejection established in the subsequent paragraphs.

***Claim Rejections - 35 USC § 103***

3. Claims 1-9, 13-20 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mann et al. (US 5833623) in view of Powell (US 5549654).

Mann et al. disclose a system for facilitating rapid retrieval of atrial and ventricular capture test data, providing a visual representation of the presence and absence of captured cardiac events (figure 1; col. 3 @ 7-14; col. 7 @ 50-52 & 58-66; col. 9 @ 20-24; col. 8 @ 12-24 & 31-36; col. 8 @ 65 – col. 9 @ 2; col. 10 @ 60-63; col. 13 @ 62 – col. 14 @ 9; Table 1 – Vent Capture, Atrial Capture, Loss of Capture).

As discussed in the previous paragraph of this action, Mann et al. disclose the claimed invention except for the visual representations/ markers being text markers.

Art Unit: 3762

Powell teach visual marking for a display means using text markers for the purpose of indicating the nature of cardiac activity. It would have been obvious to one having ordinary skill in the art at the time of the invention to have used text markers in the Mann et al. system in order to simplify the process enabling the reader to readily understand and evaluate the cardiac data (abstract; figs. 5c, 6; col. 2 @ 31-42; col. 3 @ 16-19; col. 4 @ 23-40; col. 5 @ 34-41; col. 14 @ 1-14; col. 15 @ 15-22).

***Claim Rejections - 35 USC § 103***

4. Claims 10-12 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mann et al. (US 5833623) in view of Powell (US 5549654) and further in view of Stroebel (US 5861012). As discussed in paragraph 2 of this action, modified Mann et al. disclose the claimed invention except for selectively activating a means to automatically assess a pacing threshold value, add a safety margin, recommend the pacing amplitude and pulse width, and display the recommended pacing amplitude and pulse width for practitioner review.

Stroebel teaches stimulation threshold measurements using selective activation of a means to automatically assess a pacing threshold value, add a safety margin, recommend the pacing amplitude and pulse width, and display the recommended pacing amplitude and pulse width for practitioner review for the purpose of periodically updating the pacing parameters and providing the practitioner with feedback on the cardiac performance. It would have been obvious to one having ordinary skill in the art at the time of the invention to have used using selective activation of a means to automatically assess a pacing threshold value, add a safety margin, recommend the pacing amplitude and pulse width, and display the recommended pacing amplitude and pulse width for practitioner review in the modified Mann et al. system in order

Art Unit: 3762

more frequently define the pacing parameters to minimize the energy usage, hence optimizing battery performance and to provide the practitioner with comprehensive data to optimize the cardiac therapy (col. 3 @ 42-49; col. 4 @ 25-32; col. 5 @ 38-45; col. 8 @ 51-60; col. 11 @ 56-66; col. 19 @ 65 – col. 20 @ 7; col. 27 @ 16-19).

***Statutory Basis***

4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

***Conclusion***

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Fran Oropeza, telephone number is (703) 605-4355. The Examiner can normally be reached on Monday – Friday from 9 a.m. to 5:30 p.m.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's Supervisor, Angela D. Sykes can be reached on (703) 308-5181. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306 for regular communication and for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Receptionist, telephone number is (703) 308-0858.

Frances P. Oropeza  
Patent Examiner  
Art Unit 3762

*FPO*  
*6/13/04*

*Angela D. Sykes*

**ANGELA D. SYKES**  
**SUPERVISORY PATENT EXAMINER**  
**TECHNOLOGY CENTER 3700**